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1 Real-time shading

[Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. IV Randi Rost](#)

August 2004 SIGGRAPH '04: SIGGRAPH 2004 Course Notes

Publisher: ACM

 Full text available: [Pdf \(7.39 MB\)](#) Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 89, Downloads (12 Months): 691, Citation Count: 1

Real-time procedural shading was once seen as a distant dream. When the first ver this course was offered four years ago, real-time shading was possible, but only wi of-a-kind hardware or by combining the effects of tens to hundreds of rendering ...

2 QVM: an efficient runtime for detecting defects in deployed systems

[October 2008 OOPSLA '08: Proceedings of the 23rd ACM SIGPLAN conference on Obj oriented programming systems languages and applications](#)

Publisher: ACM

 Full text available: [Pdf \(917.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index te](#)

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Coping with software defects that occur in the post-deployment stage is a challengi problem: bugs may occur only when the system uses a specific configuration and o under certain usage scenarios. Nevertheless, halting production systems until the .

Keyw ords: algorithms, reliability, virtual machines

Also published in:

October 2008 SIGPLAN Notices Volume 43 Issue 10

3 An optimization approach to group coupling in heterogeneous collaborative sy

[Carlos D. Correa, Ivan Marsic](#)

November 2005 GROUP '05: Proceedings of the 2005 international ACM SIGGROUP conference on Supporting group work

Publisher: ACM

 Full text available: [Pdf \(933.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index te](#)

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Recent proliferation of computing devices has brought attention to *heterogeneous* collaborative systems, where key challenges arise from the resource limitations and disparities. Sharing data across disparate devices makes it necessary to employ ...

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Keyw ords: 3D content adaptation, CSCW, coupling, heterogeneous systems

4 Garbage collection for embedded systems

 David F. Bacon, Perry Cheng, David Grove

September 2004 EMSOFT '04: Proceedings of the 4th ACM international conference on Embedded software

Publisher: ACM


Full text available:  Pdf (199.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 87, Citation Count: 5

Security concerns on embedded devices like cellular phones make Java an extreme attractive technology for providing third-party and user-downloadable functionality. However, garbage collectors have typically required several times the maximum liv


Keyw ords: compaction, fragmentation, mark-and-sweep, tracing

5 Challenges: environmental design for pervasive computing systems

 Ravi Jain, John Wullert, II

September 2002 MobiCom '02: Proceedings of the 8th annual international conference on Mobile computing and networking

Publisher: ACM


Full text available:  Pdf (212.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index to](#)

Bibliometrics: Downloads (6 Weeks): 59, Downloads (12 Months): 297, Citation Count: 5

We argue that pervasive computing offers not only tremendous opportunities and research challenges but also possible negative environmental impacts, particularly in terms of physical waste and energy consumption. These environmental impacts ...


Keyw ords: environmental impacts, green computing, pervasive computing

6 Coupling prefix caching and collective downloads for remote dataset access

 Xiaosong Ma, Vincent W. Freeh, Tao Yang, Sudharshan S. Vazhkudai, Tyler A. Simon, Stephen L. Scott

June 2006 ICS '06: Proceedings of the 20th annual international conference on Supercomputing

Publisher: ACM

Full text available:  Pdf (490.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 35, Citation Count: 2


Scientific datasets are typically archived at mass storage systems or data centers on supercomputers/instruments. End-users of these datasets, however, usually perform parts of their workflows at their local computers. In such cases, client-side ...

7 A decade of reconfigurable computing: a visionary retrospective

R. Hartenstein

March 2001 DATE '01: Proceedings of the conference on Design, automation and test in Europe

Publisher: IEEE Press

Full text available:  Pdf (768.00 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index to](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 133, Citation Count: 41

[Java client ahead-of-time compiler for embedded systems](#)

[SungHyun Hong](#), [Jin-Chul Kim](#), [Jin Woo Shin](#), [Soo-Mook Moon](#), [Hyeong-Seok Oh](#), [Jaer Lee](#), [Hyung-Kyu Choi](#)

July 2007 LCTES '07: Proceedings of the 2007 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools for embedded systems

Publisher: ACM

Full text available:  [Pdf](#) (458.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index to](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 128, Citation Count: 0


The performance of embedded Java virtual machine can be improved by ahead-of-time compiler (AOTC), which translates bytecode into machine code in the server and in the machine code on the client device. Although AOTC is more advantageous than just-in-time compiler, relocation

Keyw ords: J2ME CDC, Java ahead-of-time compiler, Java virtual machine, early b just-in-time compiler, relocation

Also published in:

July 2007 SIGPLAN Notices Volume 42 Issue 7

9 [Redundancy and distributed caching in mobile DTNs](#)

 [Mikko Juhani Pitkänen](#), [Jörg Ott](#)

August 2007 MobiArch '07: Proceedings of 2nd ACM/IEEE international workshop on in the evolving internet architecture

Publisher: ACM


Full text available:  [Pdf](#) (175.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index to](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 37, Citation Count: 0

Delay tolerant networking (DTN) allows endpoints to exchange information in network where end-to-end path may not exist at any given time. In this opportunistic mode routing and forwarding functionality in intermediate nodes enables data transfer ...


Keyw ords: DTN, application, bundle, caching, delay tolerant, mobile ad-hoc network storage

10 [TiVo: making show recommendations using a distributed collaborative filtering architecture](#)

 [Kamal Ail](#), [Wijnand van Stam](#)

August 2004 KDD '04: Proceedings of the tenth ACM SIGKDD international conference Knowledge discovery and data mining

Publisher: ACM


Full text available:  [Pdf](#) (810.92 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by terms](#)

Bibliometrics: Downloads (6 Weeks): 38, Downloads (12 Months): 390, Citation Count: 5

We describe the TiVo television show collaborative recommendation system which has been fielded in over one million TiVo clients for four years. Over this install base, TiVo currently has approximately 100 million ratings by users over approximately ...


Keyw ords: clustering clickstreams, collaborative-filtering

11 [Trio: enabling sustainable and scalable outdoor wireless sensor network deployments](#)

 [Prabai Dutta, Jonathan Hui, Jaesin Jeong, Sukun Kim, Cory Sharp, Jay Taneja, Gilman Kamin Whitehouse, David Culler](#)

April 2006 | PSN '06: Proceedings of the 5th international conference on Information processing in sensor networks

Publisher: ACM


Full text available:  [Pdf \(2.25 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 129, Citation Count: 7

We present the philosophy, design, and initial evaluation of the Trio Testbed, a new outdoor sensor network deployment that consists of 557 solar-powered motes, sev gateway nodes, and a root server. The testbed covers an area of approximately 50


Keyw ords: detection, large-scale, long-life, sensor networks, surveillance, target tracking, testbed

12 [A Chinese dictionary construction algorithm for information retrieval](#)

 [Honglan Jin, Kam-Fai Wong](#)

December 2002 Transactions on Asian Language Information Processing (TALI Volume 1 Issue 4

Publisher: ACM

Full text available:  [Pdf \(133.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index to](#)



Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 107, Citation Count: 0

In this article we propose a method for constructing, from raw Chinese text, a stati based automatic dictionary. The method makes use of local statistical information (data within a document) to identify and discard repeated string patterns, ...

Keyw ords: Chinese information retrieval, automatic word extraction, dictionary construction

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